

# Product Datasheet

## DNA Ligase IV Antibody NBP2-16182

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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**NBP2-16182****DNA Ligase IV Antibody****Product Information**

<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.01% Thimerosal
<b>Isotype</b>	IgG
<b>Purity</b>	Antigen Affinity-purified
<b>Buffer</b>	0.1M Tris (pH 7), 0.1M Glycine, 20% Glycerol
<b>Target Molecular Weight</b>	104 kDa

**Product Description**

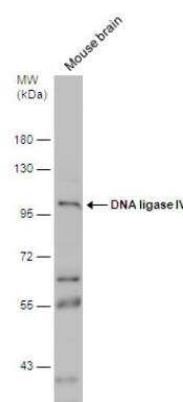
<b>Host</b>	Rabbit
<b>Gene ID</b>	3981
<b>Gene Symbol</b>	LIG4
<b>Species</b>	Human, Mouse, Rat
<b>Reactivity Notes</b>	Sheep (83%), Bovine (86%).
<b>Immunogen</b>	Recombinant protein encompassing a sequence within the C-terminus region of human DNA Ligase IV. The exact sequence is proprietary.

**Product Application Details**

<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Western Blot 1:500-1:3000, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence 1:100-1:1000, Immunohistochemistry-Paraffin 1:100-1:1000

**Images**

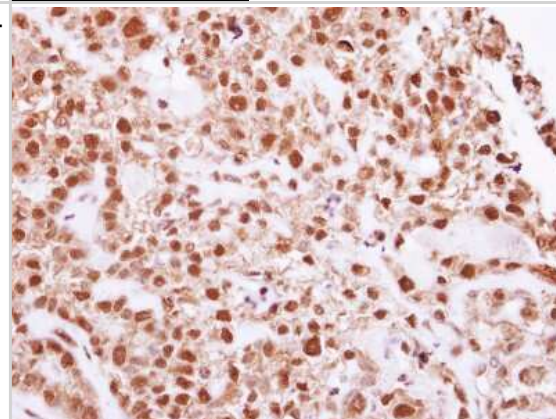
Western Blot: DNA Ligase IV Antibody [NBP2-16182] - Mouse tissue extract (50 ug) was separated by 7.5% SDS-PAGE, and the membrane was blotted with DNA ligase IV antibody diluted at 1:500.



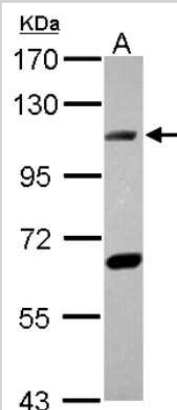
Immunocytochemistry/Immunofluorescence: DNA Ligase IV Antibody [NBP2-16182] - Analysis of paraformaldehyde-fixed HeLa, using antibody at 1:500 dilution.



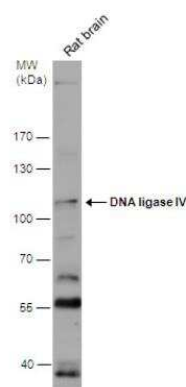
Immunohistochemistry-Paraffin: DNA Ligase IV Antibody [NBP2-16182] - Human ovarian cancer, using DNA ligase IV antibody at 1:250 dilution. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



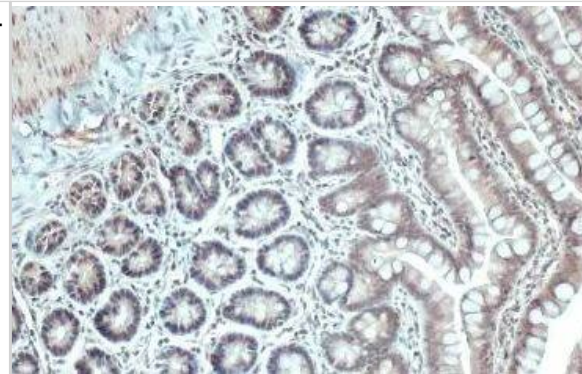
Western Blot: DNA Ligase IV Antibody [NBP2-16182] - Sample (30 ug of whole cell lysate) A: U87-MG 7. 5% SDS PAGE gel, diluted at 1:1000.



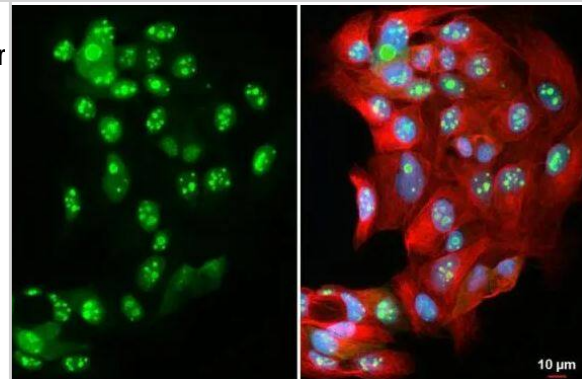
Western Blot: DNA Ligase IV Antibody [NBP2-16182] - Rat tissue extract (50 ug) was separated by 7.5% SDS-PAGE, and the membrane was blotted with DNA ligase IV antibody diluted at 1:500.



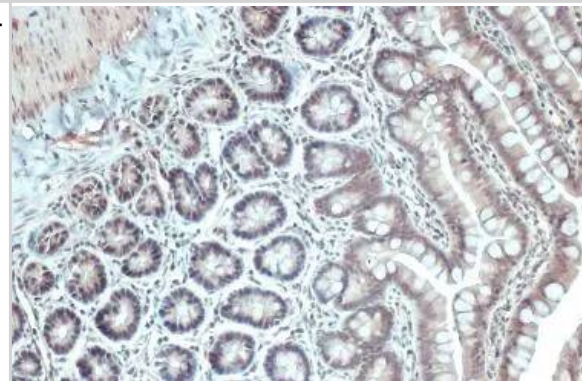
**Immunohistochemistry-Paraffin: DNA Ligase IV Antibody [NBP2-16182] - Rat colon.** DNA ligase IV stained by DNA ligase IV antibody diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



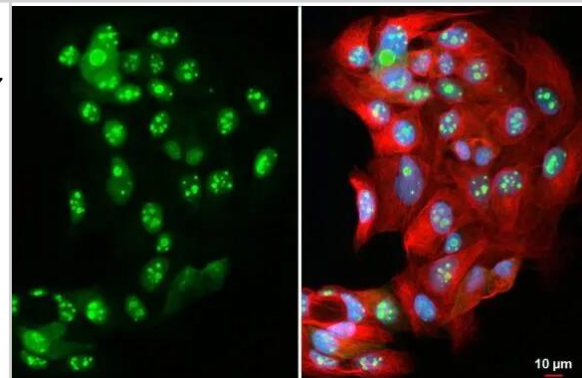
**Immunocytochemistry/Immunofluorescence: DNA Ligase IV Antibody [NBP2-16182] -MCF-7 cells** were fixed in 4% paraformaldehyde at RT for 15 min. Green: DNA ligase IV stained by DNA ligase IV antibody diluted at 1:500. Red: alpha Tubulin, a cytoskeleton marker, stained by alpha Tubulin antibody [114] diluted at 1:1000. Blue: Fluoroshield with DAPI.



**Immunohistochemistry-Paraffin: DNA Ligase IV Antibody [NBP2-16182] - DNA Ligase IV antibody detects DNA Ligase IV protein at nucleus by immunohistochemical analysis.** Sample: Paraffin-embedded rat colon. DNA Ligase IV stained by DNA Ligase IV antibody (NBP2-16182) diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



**Immunocytochemistry/ Immunofluorescence: DNA Ligase IV Antibody [NBP2-16182] - DNA Ligase IV antibody detects DNA Ligase IV protein at nucleus and nucleolus by immunofluorescent analysis.** Sample: MCF-7 cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: DNA Ligase IV stained by DNA Ligase IV antibody (NBP2-16182) diluted at 1:500. Red: alpha Tubulin, a cytoskeleton marker, stained by alpha Tubulin antibody [GT114] diluted at 1:1000. Blue: Fluoroshield with DAPI



## Publications

Hu HL, Shiflett LA, Kobayashi M et al. TOP2b-Dependent Nuclear DNA Damage Shapes Extracellular Growth Factor Responses via Dynamic AKT Phosphorylation to Control Virus Latency Mol. Cell 2019-03-26 [PMID: 30930055] (WB, Rat)



### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP2-16182**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-68729PEP	DNA Ligase IV Recombinant Protein Antigen

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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